
User's Reference

This chapter contains a general overview of the main Traffic Analysis functions as they are accessed from its main window. It briefly describes their main function and purpose. For complete details on each of these functions and their operation, refer to the Traffic Analysis on-line Help function.

File menu

This menu contains functions used to select an output device, set up a printer and exit from Traffic Analysis.

To access these functions, click **File** from the main window and select from the following menu items:

- Select Output Device
- Print Setup
- Close

Reports & graphs

The Traffic Analysis reports and graphs provide the details for the traffic data collected from the Meridian 1. These can be printed to an output device, to the screen for review, or to a disk file. Traffic Analysis provides a set of profiles and filters to allow you to tailor the output of these reports and graphs to suit your needs. Once you have collected the traffic data from the Meridian 1, use the commands in the Reports and Graphs menus (following sections) to generate the required reports and graphs.

Reports menu

The Reports menu contains functions and commands to print reports based on the collected traffic data.

The following are the reports available from Traffic Analysis.

— System Reports

- Network Loops
- Service Loops
- Dial Tone Delay
- Processor Load
- Selected Terminals
- Junctor Group
- Command and Status Links and Application Module Links
- D-Channel
- Multi-Purpose ISDN Signaling Processor Traffic
- Multi-Purpose ISDN Signaling Processor DCH Management
- Multi-Purpose ISDN Signaling Processor Messages
- ISDN Generic Functional Protocol

— Customer Reports

- Networks
- Trunks
- Customer Console Measurements
- Individual Console Measurements
- Feature Key Usage
- Radio Paging
- Parallel Radio Paging

- Serial Radio Paging
- Call Park
- Messaging and Auxiliary Processor Links
- Output Message Traffic
- Input Message Traffic
- Message Attendant Queue
- Telephone Set Status
- Telephone Messaging
- Network Attendant Service
- Semi-Permanent Connection Links Establishment
- Music Broadcast
- RAN Broadcast

— Customer Network Reports

- Route Lists
- Off Hook Queuing
- Call Back Queuing
- Remote Virtual Queuing
- Network Class-of-Service
- Incoming Trunk Group

— System Threshold Reports

- Dial Tone Speed
- Loop Traffic
- Junctor Traffic
- Super Loop Traffic

- Customer Threshold Reports
 - Incoming Matching Loss
 - Outgoing Matching Loss
 - Average Speed of Answer
 - Percent Last Trunk Busy
 - Off-Hook Queue Overflow Threshold
- Customer Summary Reports
 - Traffic System Summary
 - Trunks Summary
 - Customer Console Summary
 - Individual Console Summary

Graphs menu

Similar to the Reports menu, the Graphs menu contains functions and commands to print graphs based on the collected traffic data.

The following are the graphs available from Traffic Analysis.

- System Graphs
 - Network Loops
 - Processor Load
- Customer Graphs
 - Trunks
 - Customer Console Measurement
 - Messaging and Auxiliary Processor Links
- Customer Network Graphs
 - Route Lists
 - Off Hook Queuing

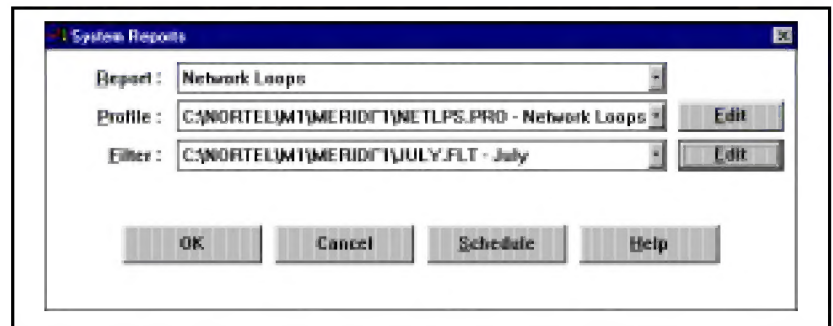
- System Threshold Graphs
 - Loop Traffic
 - Super Loop Traffic
- Customer Threshold Graphs
 - Percent Last Trunk Busy

Generating reports & graphs

To generate a report or graph, select the report or graph type from the Reports menu or the Graphs menu. When the Report or Graph dialog appears, enter its optional profile and filter information and click **OK** to print it.

The following is an example dialog in which you can enter reporting criteria and generate the report. The corresponding Graphs dialog operates similarly.

Figure 3
System Reports dialog



Click on the drop-down button to display a list of the reports or graphs in that category. Each entry in the list has one or more associated profiles and filters. After you click to select a report (or graph), use the same process to select the appropriate profile and filter. Edit buttons next to the Profile and Filter boxes let you review and modify the selected profile and filter.

Profiles

Profiles define the kind of information to include in a report or graph. Each report or graph requires at least one profile. Traffic Analysis includes several default profiles for commonly-used reports and graphs. You can define a new profile by editing one of the default profiles and saving your work under a new profile name. Profile file names use the **.PRO** extension.

Filters

Filters define the range of traffic data to be included on a report or graph, such as data for a specific month. Filter file names use the **.FLT** extension.

Exporting Reports

The Export function allows you to export traffic data from its reports to disk files in specific formats. This function is invoked when a report is generated to screen.

After you have completed your work with profiles and filters, click on one of the following buttons to proceed:

OK to produce the report or graph

Schedule to specify the time at which the report or graph is to be produced

Help to obtain help for this function

Cancel to cancel the request and return to the main window

When you have printed or scheduled the output, the system will return to the Traffic Analysis window.

“What-if” menu

In addition to generating reports and graphs, you can use Traffic Analysis to ask “What if?” questions on data output from the Meridian 1. This is accomplished by defining scenarios and viewing hypothetical results. These “What if” scenarios provide different results based on new situations that you input into the system.

To define a scenario, select it from the list of available scenarios. Next, select a profile to define its contents and a filter to set a range for its data. This process is similar to producing a report or graph.

You can define the following “what if” scenarios:

- Processor Load
- Trunk
- Attendant Console

To access this function, open the What-if menu in the Traffic Analysis window.

Processor Load scenario

The Processor Load scenario provides information on rated capacity for your Meridian 1. It lists overall and itemized information on the busy hour and the number of attempts at the busy hour rate over the rated capacity. It allows you to adjust the call attempts or the CPU type and view the resulting change in busy hour CPU loading time.

Note: In the filter for this scenario, enter a range with a minimum of 24 hours to make the scenario data valid.

Trunk scenario

The Trunk scenario allows you to determine the offered traffic, monthly cost and probability of blocking a trunk or a set of trunk groups. Use this scenario to change the offered traffic or the probability of trunk blocking and view the results for the trunks.

Attendant Console scenario

The Attendant Console scenario provides information on console response and service levels. Use this scenario to change response times and service levels and view the results.

Maintenance menu

Traffic Analysis provides maintenance functions which are used to: manually collect traffic data; manage the Traffic Database; edit report profiles and filters; and edit text files.

Traffic Database

The Traffic Database function is used to archive a range of traffic data as well as merge, delete and reindex traffic data files.

Traffic Data Collection

The Traffic Data Collection function is used to initiate data collection from the current system's Meridian 1. Use this function to: set up the Meridian 1 for traffic collection; schedule traffic data collection; and schedule parsing of traffic data which was previous collected by MAT Call Accounting.

Profile Editor

Every report or graph requires a profile that defines the data to be included in a report or graph. MAT provides default profiles for common reports and graphs. Use the Profile Editor to view and edit the options and parameters in a profile. You can also use profiles to store and manage sets of configuration and customization information.

Filter Editor

Filters define the range of traffic data to be included in a report or graph. The Filter Editor allows you to create or edit report filters.

Text File Editor

In certain cases, you may periodically need to view or edit a text file used by Traffic Analysis. For example, you may edit the traffic data file collected from the Meridian 1 to correct any errors before the system processes the file. Use the Text File Editor command to edit any text files for Traffic Analysis.